

Information about data [zip file]

"On solutions of the PFSS model with GONG synoptic maps for 2006-2018"

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All data files are ASCII

%%
|----> **Photospheric unsigned magnetic flux [Wb]**

File: PhotosphericFlux.txt
Column 1: Time [Julian date]
Column 2: Flux [Wb]

%%
|----> **PFSS modelled unsigned magnetic flux at the source-surface and magnetic field at L1**

Files: SourceSflux_Rs_Radius_All.txt

Where:
Radius = Radius of the source-surface in the PFSS model
Column 1: Time [Julian date]
Column 2: Flux at the source-surface [Wb]
Column 3: Magnetic field at L1 [T]

%%
|----> **PFSS modelled Coronal Hole (CH) area and open magnetic flux**

Files: COHO_full_Rs_Radius_All.txt

Where:
Radius = Radius of the source-surface in the PFSS model
Column 1: J_Day - Time [Julian date]
Column 2: Flux_coho_tot - Open unsigned magnetic flux [Wb]
Column 3: Total_Ar - Total CH area [m²]
Column 4: Total_ar_sun_ar - Total CH area divided by the Sun's surface area
Column 5: B_Coho - CH Magnetic field [Gauss]
Column 6: Flux_coho_np - Open unsigned magnetic flux from norther polar region [Wb]
Column 7: Area_np - CH area for norther polar region
Column 8: Area_np_Sun_a - CH area for norther polar region divided by the Sun's surface area
Column 9: Av_B_np - CH Magnetic field for norther polar region

Column 10: Flux_coho_nh - Open unsigned magnetic flux for [0, 55] degrees latitudinal region
 Column 11: Area_nh - CH area for [0, 55] degrees latitudinal region
 Column 12: Area_nh_Sun_a - CH area for [0, 55] degrees latitudinal region divided by the Sun's surface area
 Column 13: Av_B_nh - CH Magnetic field for [0, 55] degrees latitudinal region
 Column 14: Flux_coho_sh - Open unsigned magnetic flux for [0, -55] degrees latitudinal region
 Column 15: Area_sh - CH area for [0, -55] degrees latitudinal region
 Column 16: Area_sh_Sun_a - CH area for [0, -55] degrees latitudinal region divided by the Sun's surface area
 Column 17: Av_B_sh - CH Magnetic field for [0, -55] degrees latitudinal region
 Column 18: Flux_coho_sp - Open unsigned magnetic flux from southern polar region
 Column 19: Area_sp - CH area for southern polar region
 Column 20: Area_sp_Sun_a - CH area for southern polar region divided by the Sun's surface area
 Column 21: Av_B_sp - CH Magnetic field for southern polar region

%%
 |----> **To associate Longitude with Date/Time**

Files: LongitudeDateYYMMDDHH.dat [contain information about longitude and corresponding date, etc.]

Where:

- YY = Year (last two digits)
- MM = Month
- DD = Day
- HH = Hour

The columns in the file are:

- Column 1: Longitude [degrees]
- Column 2: Year
- Column 3: Month
- Column 4: Day
- Column 5: Hour
- Column 6: Minute
- Column 7: Carrington rotation number
- Column 8: Carrington longitude

